Attorney's Docket No.: 08935-250002 / M-4970

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: William L. Bowden et al. Art Unit: Serial No.: Examiner:

Filed : March 9, 2004

Title : ALKALINE BATTERY

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Applicants submit the references listed on the attached form PTO-1449.

Under 35 USC §120, this application relies on the earlier filing date of application serial number 09/988,297, filed on November 19, 2001. The following references were submitted to and/or cited by the Office in the prior application and, therefore, are not provided in this application.

This statement is being filed with the application.

Please apply any charges or credits to Deposit Account No. 06-1050.

Date: March 9, 2004

Fish & Richardson P.C. 225 Franklin Street Boston, MA 02110-2804 Telephone: (617) 542-5070 Facsimile: (617) 542-8906

20819026.doc

Robert C. Nabinger Reg. No. 33,431

Respectfully submitted,

CERTIFICATE OF MAILING BY EXPRESS MAI

Express Mail Label No. EL 983 021 898 US

March 9, 2004

Date of Deposit

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 08935-250002	Application No.
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant William L. Bowden et al.	
		Filing Date March 9, 2004	Group Art Unit

U.S. Patent Documents							
Examiner Initial	Desig. ID	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA	4,133,856	01/09/79	Ikeda et al.			
	AB	Re30,458	12/23/80	Uetani et al.			
	AC	4,246,253	01/20/81	Hunter			
	AD	4,312,930	01/26/82	Hunter			
	AE	4,604,336	08/05/86	Nardi			
	AF	4,904,552	02/27/90	Furukawa et al.			
	AG	4,975,346	12/04/90	Lecerf et al.			
	AH	5,114,804	05/19/92	Stiles et al.			
	AI	5,425,932	06/20/95	Tarascon			
	AJ	5,596,278	01/21/97	Lin et al.			
	AK	5,759,510	06/02/98	Pillai			
	AL	5,955,052	09/21/99	Padhi et al.			
	AM	5,997,839	12/07/99	Pillai			
	AN	6,207,129	03/27/01	Padhi et al.			
	AO	6,225,009	05/01/01	Fleischer et al.			

	Foreign Patent Documents or Published Foreign Patent Applications							
Examiner	Desig.	Document	Publication	Country or			Trans	slation
Initial	ID_	Number	Date	Patent Office	Class	Subclass	Yes	No
	AP	JP 1-120767	05/12/99	Japan				
	AQ	EP 0 728 701 A1	08/28/96	EPO				

	Other Documents (include Author, Title, Date, and Place of Publication)				
Examiner	Desig.				
Initial	ID d	Document			
	AR	Ammundsen et al., "Mechanism of Proton Insertion and Characterization of the Proton Sites in Lithium Manganate Spinels," Chem. Mater., Vol. 7, No. 11, pp. 2151-2160, (1995).			
	AS	Bowden et al., "Manganese Dioxide for Alkaline Zinc Batteries: Why Electrolytic MnO ₂ ?," ITE Letters on Batteries, New Technologies & Medicine, Vol. 1, No. 6, (2000).			
	AT	Dahn et al., "Thermal stability of Li _x CoO ₂ , Li _x NiO ₂ and λ-MnO ₂ and consequences for the safety of Li-ion cells," Solid State Ionics, Vol. 69, Nos. 3-4, pp. 265-270, (1994).			
	AU	David et al., "Structure Refinement of the Spinel-Related Phases Li ₂ Mn ₂ O ₄ and Li _{0.2} Mn ₂ O ₄ ," J. Solid State Chem., Vol. 67, pp. 316-323, (1987).			

Examiner Signature

Date Considered

EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 08935-250002	Application No.
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant William L. Bowden et al.	
		Filing Date March 9, 2004	Group Art Unit

	Other Documents (include Author, Title, Date, and Place of Publication)				
Examiner	Desig.				
Initial	ID	Document			
	BA	Geronov et al., "Rechargeable Compact Li Cells with Li _x Cr _{0.9} V _{0.1} S ₂ and Li _{1+x} V ₃ O ₈ Cathodes and Ether-Based Electrolytes," J. of the Electrochemical Soc., Vol. 137, No. 11, pp. 3338-3344, (1990).			
	вв	Giwa et al., "Lithium Primary Envelope Cells," 16 th Intern. Seminar & Exhibition on Primary & Secondary Batteries, pp.Q1-11 (1999).			
	ВС	Hunter, J. C. and Tudron, F. B., "Nonaqueous Electrochemistry of Lambda MnO ₂ ," Proc. Electrochem. Soc. Vol. 85-4, pp. 444-451, (1985).			
	BD	Hunter, James C., "Preparation of a New Crystal of Manganese Dioxide: λ-MnO ₂ ," Journal of Solid State Chemistry, Vol. 39, pp. 142-147, (1981).			
	BE	Larcher et al., "Synthesis of MnO ₂ Phases from LiMn ₂ O ₄ in Aqueous Acidic Media," J. Electrochem. Soc., Vol. 145, No. 10, pp. 3392-3400, (1998).			
	BF	Manev, V. et al., "Rechargeable lithium battery with spinel-related λ -MnO ₂ 1. Synthesis of λ -MnO ₂ for battery applications," Journal of Power Sources, 43-44, pp. 551-559, (1993).			
	BG	Mosbah et al., "Phases Li _x MnO ₂ λ Rattachees au Type Spinelle," with English abstract, Bater. Res. Bull, Vol. 18, pp. 1375-1381, (1938).			
	вн	Patrice et al., "Understanding the second electron discharge plateau in MnO ₂ -based alkaline cells," ITE Letters on batteries, New Technologies and Medicine, Vol. 2, No. 4, (2001).			
	BI	Read et al., "Low Temperature Performance of λ-MnO ₂ in Lithium Primary Batteries," Solid State Letters, Vol. 4, No. 10, pp. A162-165, (2001).			
	BJ	Schilling et al., "Modification of the High-Rate Discharge Behavior of Zn-MnO ₂ Alkaline Cells through the Addition of Metal Oxides to the Cathode," ITE Letters on Batteries, New Technologies & Medicine, Vol. 2, No. 3, (2001).			
	BK	Tarascon et al., "Chemical and electrochemical insertion of Na into the spinel λ -MnO ₂ phase," Solid State Ionics, Vol. 57, pp. 113-120, (1992).			
	BL	Tarascon et al., "The Spinal Phase of LiMn ₂ O ₄ as a Cathode in Secondary Lithium Cells," J. Electrochem. Soc., Vol. 138, No. 10, pp. 2859-2864, (1991).			
	BM	Tarascon, J. M. and Guyomard, D., "The Li _{1+x} Mn ₂ O ₄ /C Rocking-Chair System: A Review," Electrochimica Acta, Vol. 38, No. 9, pp. 1221-1231, (1991).			
	BN	Xia, Xi and Sun Weiwei, "The electrochemical performance of .lambdaMnO2 in alkaline solution," abstract only, Dianyuan Jishu, 23 (Suppl.), pp. 74-76, (1999).			

Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if no	ot in conformance and not considered. Include conv of this form with
next communication to applicant.	The second secon